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TH DIC DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
FILING DATE		20564511520	9738
04/04/2001	Jian-Kang Zhu	203643/0320	7,50
590 08/06/2002	MAIFR & NEUSTADT PC	EXAMINER	
OR		BAUM, STUART F	
, VA 22202		ART UNIT	PAPER NUMBER
		1638	$\overline{\mathcal{Q}}$
		DATE MAILED: 08/06/2002	
	08/06/2002 /AK MCCLELLAND OR SON DAVIS HIGHWAY	04/04/2001 Jian-Kang Zhu 590 08/06/2002 /AK MCCLELLAND MAIER & NEUSTADT PC FOR SON DAVIS HIGHWAY	04/04/2001 Jian-Kang Zhu 205645US20 7AK MCCLELLAND MAIER & NEUSTADT PC OR ON DAVIS HIGHWAY VA 22202 ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
•	09/824,735	ZHU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Stuart Baum	1638			
The MAILING DATE of this communication a	pears on the cover sheet	with the correspondence a	ddress		
n ded for Book					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b). Status	I.136(a). In no event, however, may in 136(a). In no event, however, may eply within the statutory minimum of the distribution of the status of the application to become ling date of this communication, ever	a reply be timely filed hirty (30) days will be considered tim ONTHS from the mailing date of this	ely. communication.		
1) Responsive to communication(s) filed on _	·				
2a) This action is FINAL 2b)	This action is non-final.	proposition as to	the merits is		
2a) Since this application is in condition for allo closed in accordance with the practice und Disposition of Claims	er Ex parto que y es	C.D. 11, 453 O.G. 213.			
4)⊠ Claim(s) <u>1-42</u> is/are pending in the applicat	ion.				
4a) Of the above claim(s) is/are without	Irawn from consideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-42 are subject to restriction and	or election requirement.				
Application Papers					
9) The specification is objected to by the Exam	niner.	by the Examiner.			
10) The drawing(s) filed on is/are: a) a	ccepted or b) bobected to	shevance See 37 CFR 1.85	(a).		
Applicant may not request that any objection to	is: a) C approved b)	disapproved by the Exa	miner.		
11) The proposed drawing correction filed on					
If approved, corrected drawings are required	Examiner				
12) The oath or declaration is objected to by the	e Examiner.				
Priority under 35 U.S.C. §§ 119 and 120	25.11.9	C & 119(a)-(d) or (f).			
13) Acknowledgment is made of a claim for fo	reign priority under 35 0.	3.0. § 110(a) (a) or (b)			
a) ☐ All b) ☐ Some * c) ☐ None of:		1			
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No					
2. Certified copies of the priority document	ments have been received	In Application No	onal Stage		
Copies of the certified copies of the application from the Internation See the attached detailed Office action for	a list of the certified copie	s not received.			
* See the attached detailed Office action for 14) Acknowledgment is made of a claim for do	mestic priority under 35 U	.S.C. § 119(e) (to a provis	ional application).		
	so provicional application	ilas been received.			
a) The translation of the foreign language 15) Acknowledgment is made of a claim for do	omestic priority under 35 L	J.S.C. §§ 120 and/or 121.			
Attachment(s)	4) 🗍 Int	erview Summary (PTO-413) Par	er No(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449) Paper 	48) 5) No	otice of Informal Patent Application	on (PTO-152)		

Art Unit: 1638

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-22, and 32-35 drawn to an isolated polynucleotide of SEQ ID NO:1 encoding a polypeptide of SEQ ID NO:2, operably linked to a promoter, a vector I. comprising said sequences, a host cell, a plant cell, a transgenic plant, a method of making a transgenic plant and a method of increasing the salt tolerance of a plant, classified in class 800 subclass 290 for example.
 - Claims 23-25 are drawn to a process of screening for a polynucleotide, classified II. in class 435 subclass 6 for example.
 - Claim 26, and 28 are drawn to a process for detecting a nucleic acid using a probe or primer comprising at least 15 consecutive nucleotides, classified in class 435 III. subclass 6 for example.
 - Claims 27 and 29 are drawn to a method of producing a nucleic acid using PCR IV. classified in class 435 subclass 91.2 for example.
 - Claims 30-31 are drawn to a method of making a SOS2 protein, classified in class V. 435 subclass 69.1 for example.
 - Claim 36 drawn to a method of increasing the salt tolerance of a plant comprising enhancing the expression of the SOS2 gene, classified in class 800 subclass 290 VI. for example.

Application/Control Number: 09/824,735

Art Unit: 1638

VII. Claims 37-42 are drawn to an isolated polypeptide of SEQ ID NO:2 classified in class 530 subclass 370 for example.

Inventions I and VII are unrelated to each other, as are Inventions III-VI, unrelated to each other. Applicant is reminded that nucleotide sequences either encoding different proteins or specifying specific expression patterns are structurally distinct chemical compounds and are unrelated to one another, as are different proteins structurally distinct chemical compounds and unrelated to one another. These sequences are thus deemed to normally constitute **independent** and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq (see MPEP 803.04 and 2434). This requirement is not to be construed as a requirement for an election of species, since each nucleotide and amino acid sequence is not a member of a single genus of invention, but constitutes an independent and patentably distinct invention.

Inventions I, and VII are distinct from each other because the starting materials, method steps and end products are distinct and unrelated to each other. Furthermore, the protein of Invention VII could be made by a process other than the expression of the nucleic acid of Invention I, such as chemical synthesis or purification from the natural source, and the DNA of Invention I may be used for a process other than the production of a protein, such as a nucleic acid hybridization. Lastly, DNA and protein differ in composition, structure and function.

Inventions I and V and distinct from each other because the method steps, starting materials and end products are distinct and unrelated to each other. The vectors used in Invention V would be specific to protein production and purification whereas the vectors and

Application/Control Number: 09/824,735

Art Unit: 1638

14

nucleic acids used in invention I would be specific for amplification of the specific nucleic acid or expression of the protein in an in vivo environment without the purpose of isolating the protein.

Inventions II-IV are all distinct from each other because the method steps, starting materials and end products are distinct and unrelated to each other.

Inventions I and VII, II-IV, V and VI, are all distinct from each other because the starting materials, method steps and end products are distinct and unrelated to each other.

Each of Inventions I-VII are capable of being separately made, independently used, and the patentability of one does not render the others obvious or unpatentable.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, fields of search, and classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 09/824,735

Art Unit: 1638

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart Baum whose telephone number is (703) 305-6997. The examiner can normally be reached on Monday-Friday 8:30AM – 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (703) 306-3218. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3014 or (703) 305-3014 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the legal analyst, Kim Davis, whose telephone number is (703) 305-3015

Stuart Baum Ph.D.

July 26, 2002

PRIMARY EXAMINER
GROUP 1600